

**Work Order ID 119774**

Thursday, May 22, 2014 11:36:14 AM

**\*119774\***

Page 1

Item ID: D4716-5

Accept

**\*N900040100\***Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: Duct Hose

Start Date: 6/27/2014 Start Qty: 30.00

**\*30\***

Cust Item ID:

Required Date: 6/27/2014 Req'd Qty: 30.00

**\*30\***

Customer:

Reference:

Approvals:

Process Plan: CDDate: 14/05/22 Tooling:

Date:

Run Start **\*NR1\***

QC: \_\_\_\_\_

Date: \_\_\_\_\_

SPC (Y/N): \_\_\_\_\_

Date: \_\_\_\_\_

Stop **\*NR2\***Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

Draw Nbr

Revision Nbr

D4716

A

100

0.00

**\*100\***

Purchasing

Memo

0.00

Purchasing

Issue P/O: 24309

MANUFACTURE AS PER DWG D4716

Supplier: CUSTOM DUCTS

Certificate of conformity is required

CD 14/05/23 30

110

Receive &amp; Inspect for Damage &amp; Mat'l Certs

0.00

**\*110\***

Packaging

Memo

0.00

Packaging

16/11/24 (30)

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design <input type="checkbox"/>									
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Handling/Pre <input type="checkbox"/>									
Material <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Offset/Setup <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Transport <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other  _____ _____ _____
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**Work Order ID 119774****\*119774\***

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Thursday, May 22, 2014 11:36:14 AM

Item ID: D4716-5 Accept **\*N900040100\*** Setup Start **\*NS1\***  
Revision ID: Stop **\*NS2\***  
Item Name: Duct Hose  
Start Date: 6/27/2014 Start Qty: 30.00 **\*30\*** Cust Item ID:  
Required Date: 6/27/2014 Req'd Qty: 30.00 **\*30\*** Customer:  
Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC6- Inspect dimensions to drawing	0.00							
<b>*120*</b>									
QC	Memo	0.00				30			
Quality Control						con			
130	Identify as per dwg & Stock Location: <u>ST/9/</u>	0.00							
<b>*130*</b>									
Packaging	Memo	0.00				30x		14-6-25	DAS 26 9-89
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
<b>*140*</b>									
QC	Memo	0.00							
Quality Control									

MLJ 14-06-25  
MF 14-6-25

# Picklist Print

Thursday, May 22, 2014 11:36:14 AM

Page 1

Work Order ID: 119774

**\*119774\***

Parent Item: D4716-5

**\*D4716-5\***

Parent Item Name: Duct Hose

Start Date: 6/27/2014

Required Date: 6/27/2014

Start Qty: 30.00

Required Qty: 30.00

Comments: IPP REV:A 12.11.08 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4716-5P <b>*D4716-5P*</b> Duct Hose		Purchased	No			110	Each	0.0000	1	30			
									**	<u>6/14/14 (30)</u>			

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

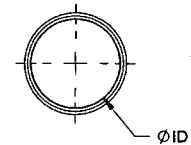
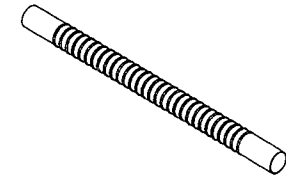
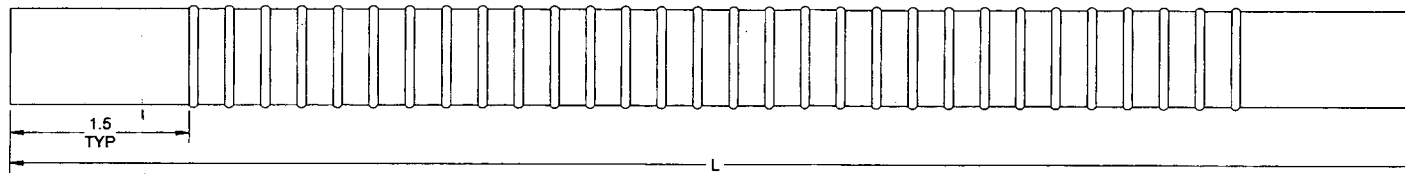
Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
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Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
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Doc/Data									
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Material									
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Offset/Setup									
Process									
Supplier									
Training									
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### FAULT CATEGORY

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# **SPECIFICATION CONTROL DRAWING**



DART PART NUMBER	DESCRIPTION	POSSIBLE VENDOR	VENDOR PART NUMBER	MATERIAL	ID	L	WEIGHT (lb)
D4716-1	DUCT HOSE	CUSTOM DUCTS	SCEET	SILICONE RUBBER	0.75	24.0	0.2
D4716-3	DUCT HOSE	CUSTOM DUCTS	SCEET	SILICONE RUBBER	0.75	28.0	0.2
D4716-5	DUCT HOSE	CUSTOM DUCTS	SCEET	SILICONE RUBBER	0.75	41.0	0.3

## **D4716-X DUCT HOSE**

*CD 14/05/22*  
*WID: 119774*

### **NOTES:**

- 1) MATERIAL: PER TABLE
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: PER TABLE

RELEASED  
2012-11-05  
*mp*

A		NEW ISSUE		RF	12.07.25
REV.	DESCRIPTION			BY	DATE
DESIGN	RF	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA			
DRAWN	RF				
CHECKED	<i>[Signature]</i>	DRAWING NO.		REV. A	
MFG. APPR.	<i>[Signature]</i>	D4716		SHEET 1 OF 1	
APPROVED	<i>[Signature]</i>	TITLE		SCALE	
DE APPR.	<i>[Signature]</i>	DUCT HOSE		NTS	
DATE		COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			
12.07.25					



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO24309**

Purchase Order Date 5/23/2014

PO Print Date 5/23/2014

Page Number 1 of 2

**Order From :**

VU-CD001

**Ship To :** DART AEROSPACE LTD

CUSTOM DUCT

179 BEAVER BERRY ROAD

LIMINGTON, MAINE 04049

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

**FAKED**  
C8/14/05/23

Contact Name

Vendor Phone

207-637-3000

Ship To Contact

Ship To Phone

Ship Via:

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	D4716-1P  AS PER DWG D4716 REV. A B119772	Duct Hose	6/27/2014 Yes 6/27/2014		10.00 Each	\$30.00	\$300.00
Line Total:							\$300.00
2	D4716-3P  AS PER DWG D4716 REV. A B119773	Duct Hose	6/27/2014 Yes 6/27/2014		24.00 Each	\$34.00	\$816.00
Line Total:							\$816.00
3	D4716-5P  AS PER DWG D4716 REV. A B119774	Duct Hose	6/27/2014 Yes 6/27/2014		30.00 Each	\$38.00	\$1,140.00

Note:

5/23/2014

Custom Duct

179 Beaver Berry Rd  
Limington, ME 04049  
PH 1 800 863 2620

# Invoice

Date	Invoice #
6/22/2014	1809

<b>Bill To</b>
Dart Aerospace 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

<b>Ship To</b>
Dart Aerospace 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

P.O. Number		Terms		Rep	Ship	Via	F.O.B.	Project	
PO24309		Net 30			6/22/2014	Federal Express			
Quantity	Item Code	Description					Price Each	Amount	
10	SCEET	Double Wall SCEET 3 X 24" Your D4716-1P					30.00	300.00	
24	SCEET	Double Wall SCEET 3 X 28" Your D4716-3P					34.00	816.00	
30	SCEET	Double Wall SCEET 3 X 41" Your D4716-5p					38.00	1,140.00	
	Ship	Shipping Charge Fedex collect					0.00	0.00	



Custom Duct  
179 Beaver Berry Rd.  
Limington, ME 04049

## CERTIFICATE OF CONFORMANCE

Customer Name: Dart Aerospace Ltd. Purchase Order No: PO24309

10 EACH SCEET 3 X 24" Your D4716-1P WITH CUFFS  
~~24 EACH SCEET 3 X 28" Your D4716-3P WITH CUFFS~~  
30 EACH SCEET 3 X 41" Your D4716-5P WITH CUFFS

DAS  
27  
9-89  
4/10/28

This is to certify that the products, systems and/or services listed here-in have been manufactured, inspected and tested in accordance with Custom Duct and industry standards. It is further certified that the items listed here-on are in compliance with the provisions of your purchase order/ work order listed above. Inspection and test records and material certifications are on file and available upon request.

Signature: Joseph Loring

Date: 22 June 2014

**HARTZELL**  
a e r o s p a c e

Industrial Tybe Co. LLC  
3091 Indian Ave  
Perris, CA 92571  
(951) 657-2611 Fax (951) 943-0191  
www.hartzellaerospace.com

**Packing List 076104****Customer No C00853****Sales Order Packing List**

**Ship to : CUSTOM DUCT**  
**179 BEAVER BERRY RD.**  
**LIMINGTON ME 04049**  
**USA**

**Sold to : CUSTOM DUCT**  
**179 BEAVER BERRY RD.**  
**LIMINGTON ME 04049**  
**USA**

Ship Date	Customer PO	Sales Order	# of Boxes	Weight	Ship VIA	Bill of Lading	FOB
05/06/2014	14-1534	031517-00	0	0.0000	UPS TRAC COLL		PERRIS,CA
Item	Part / Rev / Description / Details			Order Quantity	Location	Quantity to Ship	Picked Qty

000001 TPS 3 X 144 Rev NC U/M EA 17.000 17.000

HOSE,2 PLY SILI .75"ID X 12FT

CURED

JO 87858-0000

2 Q 1 4

0.000

000002 TPS 8 X 144 Rev NC U/M EA 5.000 5.000

HOSE,2 PLY SILI 2"ID X 12FT

JO 87859-0000

CURED

0.000

2 Q 1 4

000003 TPS 10 X 144 Rev NC U/M EA 1.000 1.000

HOSE,2 PLY SILI 2.5"ID X 12FT FW

CURED

JO 87860-0000

0.000

2 Q 1 4

000004 OPS 16 X 144 Rev A U/M EA 1.000 1.000

HOSE,1 PLY SILI 4"ID X 12FT

JO 87861-0000

CURED

0.000

2 Q 1 4

Shipper Memo:

\*\*\*CERTIFICATE OF CONFORMANCE\*\*\*

Seller hereby certifies that the products in this shipment conform to the requirements of the listed purchase order. Inspection and/or test results are on file and will be made available to the customer upon request.

Seller certifies that the Quality Management System of Industrial Tube Corp. complies with the requirements of AS9100 "C" and ISO 9001:2008. Seller certifies items were manufactured in the United States of America.

NOTE: Returns without an authorization number will not be accepted.

*Marta C. Cabral*  
*Marta Cabral*  
*05/06/14*

